

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1.-5. (Canceled)

6. (Amended) An isolated, enriched, or purified phosphatase polypeptide, **comprising** ~~wherein said polypeptide comprises~~

(a) an amino acid sequence **that is** at least 90% identical to **the** a sequence **of** ~~selected from the group consisting of those set forth in SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9 and SEQ ID NO:10; or~~

(b) ~~an amino acid sequence selected from the group consisting of those set forth in SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9 and SEQ ID NO:10; except that the polypeptide lacks one or more, but not all, of the domains selected from the group consisting of an N terminal domain, a C terminal catalytic domain, a catalytic domain, a C terminal domain, a coiled coil structure region, a spacer region and a C terminal tail,~~

wherein said polypeptide is involved in at least one of integrin signal transduction, the TAK1 signaling pathway, a cellular channel, a cyclin dependent kinase, and the Ras pathway.

7.-32. (Canceled)

33. (New) An isolated, enriched, or purified polypeptide, comprising an amino acid sequence depicted in SEQ ID NO:8 except that the polypeptide lacks one or more, but not all, of the domains selected from the group consisting of an N terminal domain, a C terminal catalytic domain, a catalytic domain, a C terminal domain, a coiled coil structure region, a spacer region and a C terminal tail.

34. (New) An isolated polypeptide comprising the amino acid sequence of SEQ ID NO: 8.

35. (New) An isolated polypeptide consisting essentially of the amino acid sequence of SEQ ID NO: 8.

36. (New) An isolated polypeptide comprising a fragment of SEQ ID NO: 8, wherein said fragment comprises at least 200 contiguous amino acids of SEQ ID NO: 8 and wherein said fragment has phosphatase activity.

37. (New) An isolated polypeptide comprising a fragment of SEQ ID NO: 8, wherein said fragment comprises at least 300 contiguous amino acids of SEQ ID NO: 8 and wherein said fragment has phosphatase activity.